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## PATENT ABSTRACTS OF JAPAN

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(21)Application number : 2002-299273 (71)Applicant : FURUKAWA

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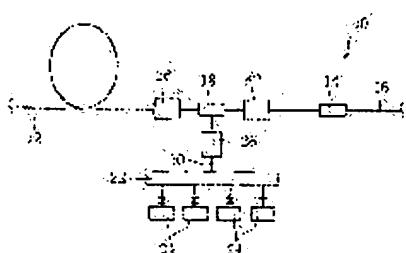
#### (54) OPTICAL AMPLIFICATION TRANSMISSION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an optical amplification transmission system capable of preventing a fiber fuse from proceeding by means of providing a fuse stopper in an optical fiber transmission path equipped with an optical wave multiplexer/demultiplexer.

SOLUTION: The optical amplification transmission system 10 includes an input side signal transmission path 12 for transmitting signal light, an excitation light transmission path 20 that is branched from the input side signal transmission path 12 via a photo-coupler

18 and transmits the excitation light combining with the signal light to amplify the signal light, an excitation light source 24 that is used for the



optical amplification and outputs the excitation light to the excitation light transmission path 20, and a fuse stopper 26 that is inserted into at least one location among locations that sandwich the photo-coupler 18 from both sides thereof in the input side signal transmission path 12.

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